

4-29-03

Sheet 1 of 3

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DCKET NO. XCI- 227

SERIAL NO. 10/646,139

APPLICANT PAUL A. NYSEN

FILING DATE 08/20/03

GROUP

INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
VI	4 7 3 9 3 2 8	4/19/88	KOELLE ET AL	342/44		7/14/86
VII	4 8 8 8 5 7 1	12/19/89	LANDT ET AL	342/44		10/6/88
VIII	4 0 5 9 8 3 1	11/22/77	EPSTEIN	343/6.8R		10/6/75
IX	4 4 8 4 1 6 0	11/20/84	RIHA	333/19S		3/8/83
X	4 6 0 4 6 2 3	8/5/86	SKEIE	343/6.8R		6/30/83
XI	4 6 0 5 9 2 9	8/12/86	SKEIE	343/6.8R		6/30/83
XII	4 6 2 0 1 9 1	10/28/86	SKEIE	342/51		6/30/83
XIII	4 6 2 3 8 9 0	11/18/86	NYSEN	342/44		6/30/83
XIV	4 6 2 5 2 0 7	11/25/86	SKEIE	342/51		6/30/83
XV	4 6 2 5 2 0 8	11/25/86	SKEIE ET AL	342/51		6/30/83
XVI	4 7 0 3 3 2 7	10/27/87	ROSSETTI ET AL	342/44		10/31/87

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL. YES
AL						
AI						
AH						
AO						
AP						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

VR						
VS						
VT						

DATE CONSIDERED 8/4/06





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U.S. DEPARTMENT OF COMMERCE  
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# ATTORNEY DISCLOSURE STATEMENT BY APPLICANT

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10/646,139

APPLICANT

PAUL A NYSEN

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## U.S. PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
5019815	5/28/91	LEMELSON ET AL	344	433	3/3/87
4288343	7/8/81	LOUDERBACK	252	408	3/22/79
4288689	1/3/81	LEMELSON ET AL	235	435	10/12/79
3273146	7/13/66	H. HURWITZ	342	51	8/7/64
5144313	7/1/92	KIRKNES	342	444	4/24/91
3981011	7/14/76	BELL, III	343	65LC	3/31/75
4263595	4/21/81	VOGEL	343	655S	5/15/79
4143340	3/6/79	HUNSINGER	333	151	9/1/76
4201964	5/6/80	NORO ET AL (	333	151	6/20/78
3810257	5/7/74	JONES ET AL	333	30R	2/1/73
4267534	5/12/81	TANSKI	333	153	5/23/80

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL.
2189738	7/17/87	AUSTRALIA	G07C	005/00	YES
661181	1/25/80	AUSTRALIA	G01K	11/22	YES
000043	2/6/90	AUSTRALIA	H04B	1/59	YES
900470	11/3/89	AUSTRALIA	H03H	4/145	YES
089617	3/16/83	GERMANY	H03H	4/145	YES

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

GURUK, WILLIAM; OPTICAL PROBING MEASUREMENTS OF SURFACE WAVE  
GENERATION AND REFLECTION IN INTERDIGITAL TRANSDUCERS ON  
LiNbO<sub>3</sub>; 11/80; pp. 341-354  
CAMBIAGGIO, EDMOND; SAW REFLECTION FROM CONDUCTING STRIPS  
ON LiNbO<sub>3</sub>; 9/79; pp. 340-344

DATE CONSIDERED

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ACTION DISCLOSURE STATEMENT  
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PAUL A. NYSEN

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DOCUMENT NUMBER		DATE	U.S. PATENT DOCUMENTS			
			NAME	CLASS	SUBCLASS	FILING IF APPR
4307356	12/22/81		ARAI	333/194		7/3/80
4096477	4/20/78		EPSTEIN ET AL	343/6.55		4/22/77
4028649	6/7/77		KOMATSU ET AL	333/72		12/19/75
4263571	4/21/81		KINOSHITA ET AL	333/194		11/15/79
4166258	8/23/79		TSENG	333/195		8/29/74
4410823	10/18/83		MILLER ET AL	310/313D		11/13/81
3845420	10/29/74		HOLLAND ET AL	333/30R		3/2/73
3931597	1/6/76		CHO ET AL	333/30R		2/4/74
1217564	8/12/80		AUTRAN	333/152		9/15/78
3801935	4/2/74		MITCHELL	333/72		7/12/72
1494031	1/15/85		BARNES ET AL	310/313B		3/16/83

DOCUMENT NUMBER		DATE	FOREIGN PATENT DOCUMENTS			
			COUNTRY	CLASS	SUBCLASS	TRANSL. YES NO
1002485	11/13/80		JAPAN	H03H	9/145	
153817	11/22/81		JAPAN	H03H	9/145	✓
122215	9/25/81		JAPAN	H03H	9/145	
400184	10/8/84		AUSTRALIA	H04B	1/59	✓
228911	11/3/87		CANADA	G01S	9/145	✓

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

WILLIAMSON, R.C.; REFLECTIVE ARRAY MATCHED FILTER FOR A 16-PULSE  
RADAR BURST; pp. 1325-1329  
DEVRIES, ADRIAN; REFLECTION OF A SURFACE WAVE FROM THREE  
TYPES OF 1D TRANSDUCERS; pp. 280-285  
IEEE TRANSACTIONS ON SONICS AND ULTRASONICS; 1/73; Vol.  
34-20, No. 1; pp. 42, 187-204

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INFORMATION DISCLOSURE STATEMENT  
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10/646,139

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## U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPA
VI	4 9 1 2 4 7 1	3/27/70	TYBURSKI ETAL (PARTIAL)	342/42		11/3/83
VII	4 1 0 6 0 2 0	8/8/78	JOHNSON	343/14		7/21/77
AC	4 0 4 4 3 5 5	8/23/77	EDVARDSSON	343/14		2/13/76
AD	2 8 1 7 0 1 2	12/17/57	H.C. KENDALL	342/42		2/20/52
AE	3 8 7 8 5 2 8	4/15/75	MAJEAU	343/6555		10/12/73
AF	3 5 0 1 2 8 0	7/21/70	M. JANCO ETAL	342/44		1/16/69
AG	3 2 0 9 3 5 0	9/23/65	R.K. DAVIS ETAL	340/2534		10/4/63
AH	4 3 8 8 5 2 1	6/14/83	WALTON	235/380		9/16/81
AI	4 1 5 1 5 2 5	4/24/79	STRAUCH ET AL	343/65R		6/28/77
AJ	4 0 2 3 1 6 7	5/14/77	WAHLSTROM	343/6555		6/16/75
AK	3 7 3 7 9 1 1	6/5/73	SAKURAGI ETAL	343/6555		8/17/70

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL. YES/NO
DE	2 6 0 4 1 0 5	2/3/76	GERMANY	H03H	9/00	✓
DE	2 5 2 1 2 9 0	5/13/75	GERMANY	H03H	9/145	✓
DE	3 4 3 8 0 5 1	10/17/84	GERMANY	G01S	13/74	✓
DE	1 2 2 8 9 1 2	11/3/87	CANADA	G01S	13/80	✓
AP	1 4 1 3 4 8 6	12/24/72	AUSTRALIA U.K.	H03B	5/32	✓

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

VR	HAYDL WILLIAM, SURFACE ACOUSTIC WAVE RESONATORS
VS	CROSS PETER S, SURFACE-ACOUSTIC-WAVE RESONATORS
VI	STUCKER HELMUT, AKUSTISCHE OBERFLACHENWELLEN-BAUELEMENTE, pp. 87-93

DATE CONSIDERED

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INFORMATION DISCLOSURE STATEMENT  
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(Use several sheets if necessary)

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PAUL A. NYSEN

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## U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
W	4339153	7/13/82	MAWHINNEY	343/655		12/19/79
W	4480150	10/30/84	JONES ET AL	174/52FP		7/12/82
W	4644384	2/17/87	CHAROENSACKVIROCHANA	357/74		2/2/84
W	4330790	5/13/82	BURNS	357/70		3/24/80
W	4003073	11/1/77	HELDA ET AL	357/70		10/10/72
W	4234666	11/18/80	GURSKY	428/573		7/26/78
W	4706105	11/10/87	MASUDA ET AL	357/74		6/13/86
W	4672418	6/9/87	MORAN ET AL	357/70		4/8/85
W	4331740	5/25/82	BURNS	428/572		4/14/80
W	3909838	9/30/75	BEYERLEIN	357/70		8/1/73
W	4141712	2/27/79	ROGERS	65/36		7/18/77

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL YES
W	847910	6/26/85	REPUBLIC OF SOUTH AFRICA	H04B		✓
W	1298381	2/26/69	ENGLAND	H04B	7/00	✓
W	847909	6/2/85	REPUBLIC OF SOUTH AFRICA	H04B		✓
W	2165411	10/9/84	ENGLAND	H03H	9/42	✓
W	2165425	10/9/84	ENGLAND	H03B	23/00	✓

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

VI	WILLIAMSON, RICHARD, REFLECTION GRATING FILTERS,
	DEPARTMENT OF THE ARMY, pp. 381-442
W	HOLLAND, MELVIN, PRACTICAL SURFACE ACOUSTIC WAVE
	DEVICES, PROCEEDINGS OF THE IEEE Vol 62, NO 5, 5/74, p 582-611
W	OMNIDIRECTIONAL ANTENNAS, BUTTERWORTH & CO,
	CHAPTER 2, pp 25-33

DATE CONSIDERED

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INFORMATION DISCLOSURE STATEMENT  
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## U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
VI	3870974	3/11/75	MCCORMICK ET AL	343/69R		12/22/72
VII	4227701	11/27/81	HENRIQUES	343/651L		8/8/79
VIII	3513470	5/19/70	G. RABOW	342/51		7/7/58
IX	4180815	12/25/79	HILL	343/65R		1/20/78
X	3665486	5/23/72	FASSETT	343/754		1/23/69
XI	4260928	11/7/81	YANAGISAWA ET AL	343/700M		4/4/79
XII	4142337	12/27/83	WOLFSON	333/116		1/30/81
XIII	4242685	12/30/80	SANFORD	343/770		4/27/74
XIV	4241352	12/23/80	ALSPAUGH ET AL	343/700M		9/15/76
XV	4220402	3/16/82	BOWEN	343/700MS		7/7/80
XVI	4589422	5/20/86	JAMES ET AL	128/804		2/3/84

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL. YES
EP	0513007	11/13/90	EUROPE	H03H	9/02	✓
GB	2142475	1/16/85	ENGLAND	H04B	1/59	✓
DE	2524571	6/3/75	GERMANY (US 3984835)	H04B	7/15	✓
FR	2165423	10/9/84	ENGLAND (US 4726841)	H04B	1/59	✓
JP	2813753	3/30/78	GERMANY (US 4209783)	G01S	7/56	✓

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VI	KEENAN, ROBERT; PRIVATE FIRM PROFITS FROM ELECTRONIC
—	TOLLS; 5/96; WIRELESS SYSTEMS DESIGN; P. 24
—	TECHNOLOGY A GENERATION AHEAD; AMTECH BROCHURE
—	pp 1-8, INSERT
VI	ALLAN, ROGER; WIRELESS TRANSCIVER WITH MICROMACHINED
—	SENSOR DETECTS BOTH TIRE PRESSURE AND TEMPERATURE
—	TECHNOLOGY ADVANCES; ELECTRONIC DESIGN; 12/16/96



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## U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
VI	4554549	11/19/85	FASSETT ET AL	343/700MS		9/19/83
VII	4477813	10/16/84	WEISS	313/700MS		8/11/82
VIII	4110653	8/29/78	HARTEMANN	310/313		3/25/77
IX	4072915	2/7/78	MITCHELL	333/72		9/10/76
X	3869682	3/4/75	HEEKS ET AL	332/11R		4/10/74
XI	4462011	7/24/84	WARD	333/154		12/27/82
XII	3600710	8/17/71	ADLER	333/72		8/12/68
XIII	3936774	2/3/76	MELLON ET AL	333/30R		3/14/74
XIV	4155056	5/15/79	CROSS ET AL	333/195		8/25/77
XV	4434383	2/28/84	CHO ET AL	310/313R		1/10/83
XVI	3898592	8/5/75	SOLIE	333/72		5/8/74

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL. YES
AL						
AF						
AN						
AO						
AP						

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

VI	WALKER, HAROLD; VPSK MODULATION TRANSMITS DIGITAL
VS	AUDIO AT 1565/HZ; WIRELESS SYSTEMS DESIGN; 12/96; pp 38-42
VI	GROSSMANN, JOHN; THE WIRING OF THE GREEN; INC. TECHNOLOGY
	1996; No 4; pp 55-58
VI	A SPREAD SPECTRUM CHIP FOR RIC APPLICATIONS; MICRON
	COMMUNICATIONS INC; MICROWAVE JOURNAL; 11/96; pp 144-148

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INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

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PAUL A NYSEN

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## U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
IV	4 242 671	12/30/80	PLAWS	340/572		12/3/78
VI	4 931 664	6/5/90	KNOLL	307/10.3		3/2/88
VI	3 961 290	6/1/76	MOORE	333/30R		2/7/75
VI	4 699 682	10/13/87	TAKISHIMA	156/292		10/16/86
VI	4 625 184	11/25/86	NIITSUMA ET AL	333/150		6/27/83
VI	4 422 055	12/20/83	CULLEN ET AL	333/151		10/30/81
VI	4 345 342	7/4/89	HERRICK ET AL	310/318		3/24/86
VI	4 933 588	6/12/90	GREER	310/313D		12/23/88
VI	4 213 104	7/15/80	CULLEN ET AL	333/150		9/25/78
VI	4 745 401	5/17/88	MONTEAN	340/572		9/9/85
VI	5 027 107	6/25/91	MATSUNO ET AL	340/572		6/27/89

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL YES
VI						
VI						
VI						
VI						
VI						

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

VI	TUTTLE, JOHN. INTEGRATED CIRCUIT SIMPLIFIES DESIGN OF RFID SYSTEMS. MICROWAVES + RF. 10/96. pp 103-109
VI	GUO, YANPENG. IF TRANSCEIVER SERVES DIGITAL CELLULAR/PCS. MICROWAVES + RF. 10/96. pp 77-84
VI	ROBINSON, GAIL. IMPULSE RADAR MICROPOWERED FOR SENSOR APPS. EET. 11/20/97. pp 33 & 36

DATE CONSIDERED

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U.S. DEPARTMENT OF COMMERCE  
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U.S. PATENT DOCUMENTS												
DOCUMENT NUMBER					DATE	NAME	CLASS	SUBCLASS	FILING			
3	0	2	5	5	24	3/13/62	C.H. THIES	343/823		5/6/59		
3	8	4	5	4	90	10/29/74	MANWARREN ETAL	343/821		5/3/73		
4	1	3	8	6	81	2/4/79	DAVIDSON ETAL	343/702		8/29/77		
3	6	8	4	9	29	4/5/72	MOODY	343/802		11/23/70		
4	8	0	0	3	92	1/24/89	GARAY ETAL	343/700		1/8/87		
4	6	4	2	6	46	2/10/87	WOOLSEY ETAL	342/42		4/25/83		
4	2	5	9	6	73	3/31/81	GURETZKY	343/825		6/5/79		
4	4	0	0	7	02	8/23/83	TANAKA	343/790		4/13/81		
5	6	5	4	6	93	8/5/97	COCITA	343/572		4/10/96		
4	7	8	2	3	45	11/1/88	LANDT	343/727		7/29/86		
5	0	3	0	8	07	7/9/91	LANDT ETAL	235/375		1/16/90		

FOREIGN PATENT DOCUMENTS												
DOCUMENT NUMBER					DATE	COUNTRY	CLASS	SUBCLASS	TRANSL.			
									YES			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

SCHREIER, PAUL, TECHNOLOGY REGS DICTATE MULTIPLE DECISIONS  
FOR WIRELESS LINKS, PERSONAL ENGINEERING, 2/97, pp 29-39

DATE CONSIDERED

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U. S. DEPARTMENT OF COMMERCE  
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